

GRADE 11 MATHEMATICAL LITERACY

SEPTEMBER TEST

QUESTION 1	FINANCES	20
MARKS		

Jane needs to raise funds for her school's softball team. She decides to sell brownies on Fridays. She decides to sell them for R5 a piece. She buys the following ingredients to make 50 brownies:

Cacao	R102,50
Butter	R46,80
Sugar	R38,20
Eggs	R66,60

1.1 Give TWO ideas on how Jane can promote brownie sales.
(2)

1.2 What does it mean to break even?
(1)

1.3 She determines that other expenses like packaging and electricity will add up to about R50,00. Determine how many brownies she should sell to break even. (5)

(3)

1.5 Is R5 an appropriate selling price? Give a reason for your answer.
(2)

1.6 She sells 50 brownies every Friday for 8 weeks for R7,00 a piece.

Determine the amount of money she makes.
(2)

1.7 She calculates that one brownie costs her R6,20 to produce.
What is her profit margin?
(3)

1.8 To fund this project, Jane borrowed R1050,00 from her dad with a
2% interest rate. Determine the amount she has to repay him.
(2)

QUESTION 2	MAPS & PLANS	16
MARKS		

The Grade 11's will be going to the Cradle of Humankind on their yearly trip.
Use the map on **ADDENDUM A** to answer the following questions.

2.1 Convert the graphical scale to a numeric scale.
(3)

Mathematical Literacy September Test Grade 11

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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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